A Tradition of Quality and Innovation
For over 100 years, the Bosch name has stood for quality and reliability. Bosch is the global supplier of choice for innovative technology, backed by the highest standards for service and support.

Bosch Security Systems proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.

Bosch Security Systems
To learn more about our product offering,
please visit www.boschsecurity.com
or send an e-mail to
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Bosch Video Management System
Securing your future with IP

BOSCH
Invented for life

IP video security
Bringing it all together

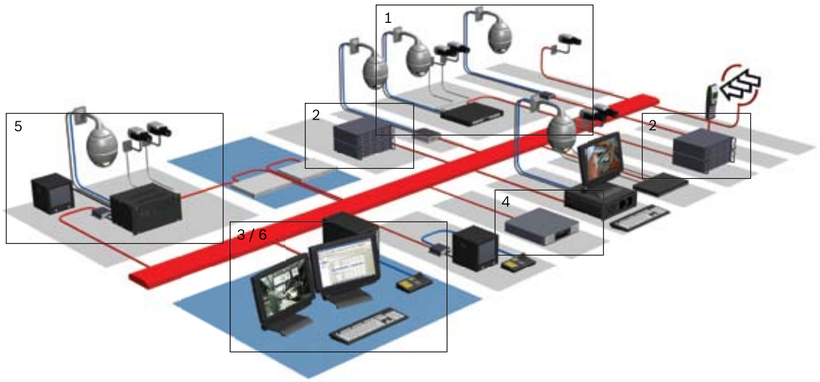
The Bosch Video Management System (VMS) manages all your IP and digital video and audio, plus all the security data being transmitted across your IP network. VMS seamlessly combines Bosch's IP cameras and encoders, DVRs and Allegiant matrix switches, so you never need to worry about where the video is coming from.

In existing Bosch systems, you can use Bosch VMS to supplement or replace your DVRs and Allegiant switches. It incorporates many GUI features that make configuration and management simple, including the ability to roll-back to a previous snapshot of the whole system.

Make the ideal choice to secure your IP future with Bosch VMS.

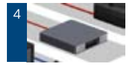
Bosch Video Management System

Securing your future with IP



1 IP cameras, encoders and decoders

Bosch VMS manages all Bosch MPEG-4 and H.264 IP cameras, domes, encoders and decoders. You can configure and control all functionality including camera settings, such as white balance and backlight, and embedded advanced Intelligent Video Analysis.



4 Digital Video Recorders

DVRs provide cost-effective distributed recording with local and remote management and monitoring. The Bosch VMS allows new and existing users of Bosch DVRs to benefit from all its powerful features.

2 Local / Network Video Recording

Local Recording
Bosch encoders offer ‚recording at the edge' solutions with built in hard disk drives, USB hard drives or solid state cards.

Network Video Recording
Offering centralized recording options, each conventional NVR has its storage array linked directly to the NVR server.

5 Analog matrix switchers and CCTV keyboards

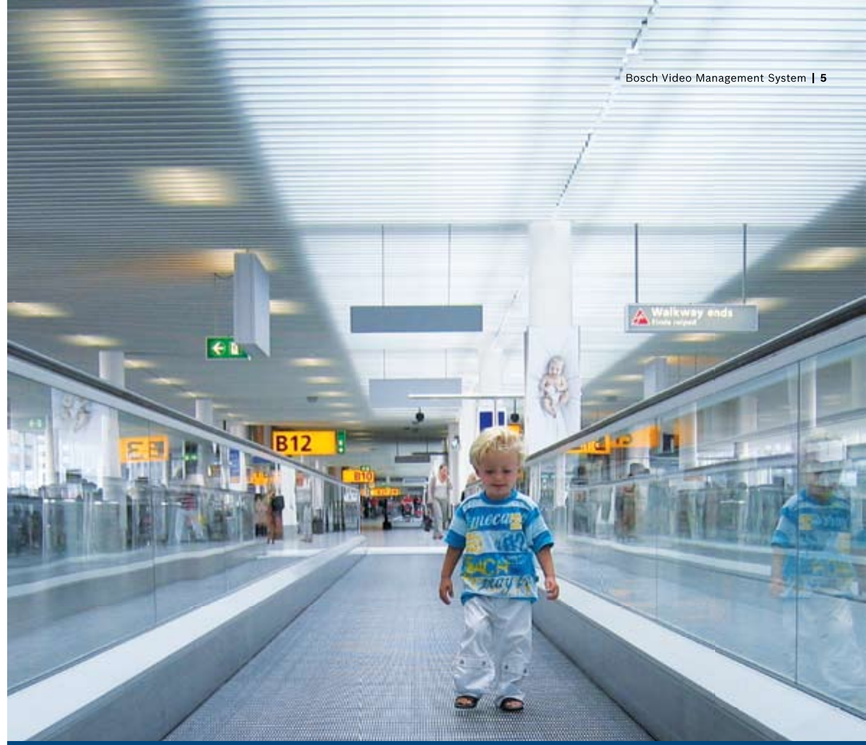
The Bosch Allegiant family of analog matrix switchers is the industry benchmark for functionality and reliability. With Bosch VMS, your existing analog installation is completely integrated into your new IP system. The simple operation and smooth PTZ control offered by the IntuiKey keyboard is extended to Bosch VMS, giving you total control of Allegiant, DVRs and IP cameras. The Bosch VMS adds a new level of management and monitoring to your legacy system, increasing effectiveness and preserving your investment.

3 Intelligent Video Analysis

Bosch Intelligent Video Analysis (IVA) technology turns your cameras into active members of your security team. Bosch IVA provides the intelligence to automatically recognize and respond to abnormal activities or potential threats. IVA is embedded in Bosch IP cameras and encoders so scales with your application needs. Ensuring maximum system effectiveness, Bosch IVA offers a unique level of IVA integration for configuration, real-time event monitoring and forensic search.

6 iSCSI and Video Recording Manager

Bosch IP cameras and encoders can stream their video directly to iSCSI disk arrays, eliminating the need for NVRs. A single server, the Video Recording Manager, manages these storage devices, providing load balancing and failover. It also makes it easy to add more storage as you add cameras, increase retention time or improve video quality. The VRM simplifies initial set up and ongoing maintenance, which has a major impact on the total cost of ownership.



The Bosch VMS reduces costs by harnessing the power and convenience of existing IP networks

- **Future-proof investment as software evolves with new technologies.**
- **Combine Bosch IP devices, DVRs and Allegiant.**
- **Flexible recording options: choose between ”recording at the edge” or centralized recording using Direct-to-iSCSI with VRM or NVR.**
- **Simple configuration of the entire system.**
- **Incorporate embedded Intelligent Video Analysis in cameras or encorders.**

Security Manager

"Thanks to the Bosch Video Management System I can now provide my company with **greater protection and integrated control.**"

Anywhere, anytime in real-time

For security managers, the Bosch VMS provides tremendous flexibility. Cameras, recorders and viewing stations can be placed anywhere in the IP network. All live and archived video data can be viewed at any location on single or multiple work stations simultaneously. The Bosch VMS provides system-wide event and alarm management, system health monitoring, user and priority management from installations that span buildings, campuses, cities, countries, or even continents!

Easier, faster, cost-effective installation

The Bosch VMS uses the comprehensive network infrastructure already present in most buildings today, eliminating the need for special coax cabling. All set-up and configuration can be carried out from any location. Automatic discovery, automatic assignment of IP addresses and advanced copy facilities speed up system configuration and ensure consistency throughout the application, while installation and system maintenance costs are considerably reduced.

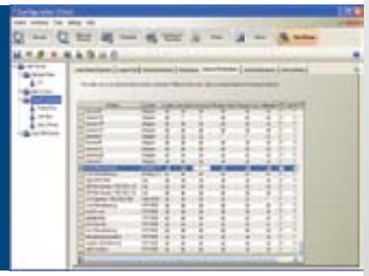
Key features for a Security Manager

1. Configuration Workflow guides administrator through system configuration.
2. Graphical setup of recording schedules supporting holidays and exception days.
3. Additional definitions for task schedules to support policies such as user logon schedules, automatic backup schedules and active alarm periods.
4. Each event allows schedule-based control over alarm generation, logging and command-script execution.
5. Fully integrated support for IVMD and IVA.

Reduced total costs of ownerships

- **Configure the entire system with one application.**
- **Future-proof investment as software evolves.**
- **Significant reduction of hardware costs with VRM recording.**

For all configuration changes, see what changed, who changed it, when it was changed and from where.



Easy allocation of global permissions, control priorities and camera-specific permissions per user group.

Security Operator

"With this video management system, I can operate **more efficiently and respond faster.**"

Easy operation

- **Task orientated user interface.**
- **Intuitive operation with CCTV keyboard.**
- **System intelligence assists in displaying alarm scenarios.**

Easier, more efficient operation

Bosch's knowledge and experience in user interface design for video security applications is second to none. This reputation is once again confirmed in the Bosch VMS user interface. The ergonomic interface reduces the complexity of video management, allowing personnel to operate more efficiently and effectively.

Key features for a Security Operator

1. Sophisticated alarm management.
2. Focus on important events with Intelligent Video content Analysis (IVA).
3. Easy to operate User Interface.
4. Intuitive operation with CCTV keyboards.

Bosch Intelligent Video Analysis (IVA)

Clearly arranged map-based operation

IT

"This video management system makes security **a manageable asset.**"

Standard network infrastructure, standard IT equipment
The Bosch VMS uses industry-standard IT server, storage and workstation components, so you can use your existing vendors and service agreements. Alternatively, Bosch can provide you with fully configured servers and workstations.

Secure and network friendly
Multicast technology can be used to ensure efficient use of system bandwidth. In addition, all commands in the VMS are encrypted, protecting against command snooping and hostile access to vital functions.

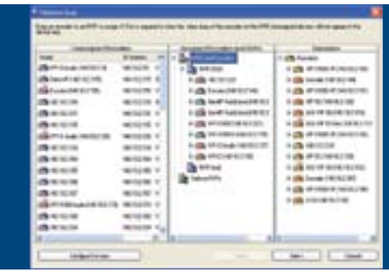
Central deployment of client updates
Updating client PCs is easy – simply install the updates on the central server and they are automatically deployed to all the client workstations. This saves time and effort, and ensures that all clients are at the correct revision.

Key features for IT

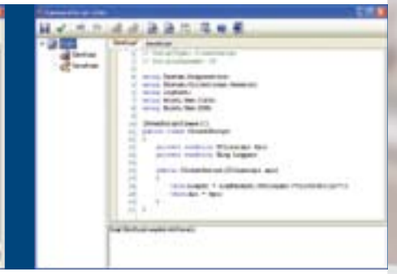
1. Users can be managed within Bosch VMS, or centrally on your existing enterprise user management system. When managed centrally, users can be added and deleted without even touching the Bosch VMS configuration.
2. The Bosch VMS can monitor your IT hardware, such as network switches and RAID arrays, using SNMP. If an incident is detected, an alarm can be sent using email or SMS.

IT benefits

- **Leverage investments in existing infrastructure.**
- **Full integration of IT components in the system.**
- **Monitor your network infrastructure.**



Efficient Auto-Detection of all devices using Bosch VMS Network Scan.



Customization using Bosch VMS scripting.

Bosch VMS
A solution for any size system

A solution for any system size

The Bosch VMS is not just for large enterprises. While it can handle an unlimited number of cameras spread throughout the world, it is just as effective for managing smaller CCTV security systems. And its flexible software licensing scheme allows you to easily add cameras, workstations and optional features to suit your growing requirements.

Typical Bosch VMS configurations

1. Bosch VMS Central Server.
2. Bosch VMS NVR.
3. Bosch VMS Client Workstation.

Small system

School

Typical benefits for a small system

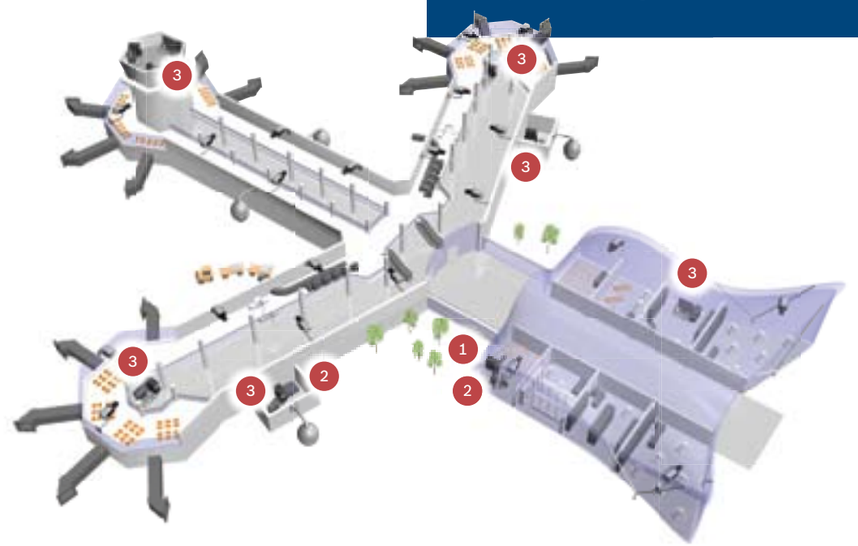
- Cost efficient licensee model.
- Cost efficient storage options (recording at the edge).
- Easy installation (out of the box recording).

Large system

Airport

Typical benefits for a large system

- Batch operations and multiple devices.
- System scalability.
- Expandable storage solutions.



Distributed system

Bank

Typical benefits for a distributed system

- Easy expandability.
- Centralized configuration.
- Client remote operation.